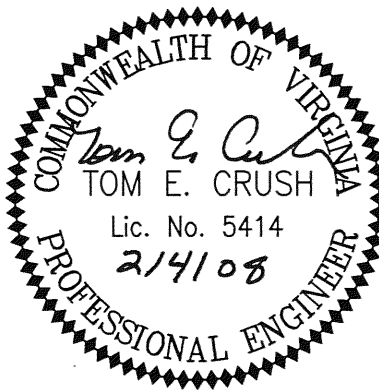
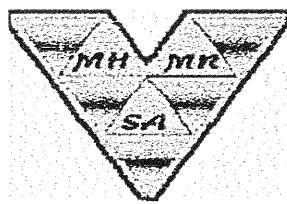


ROOF MODIFICATIONS  
FOR  
WEST CREWE PUMP STATION

PROJECT # 720-10880-29-12

DMHMMRSAS  
BURKEVILLE, VIRGINIA



Wiley & Wilson  
Employee-Owned  
2310 Langhorne Road  
Lynchburg, VA 24501-1547  
434-947-1901  
www.wileywilson.com



ROOF MODIFICATIONS  
FOR  
WEST CREWE PUMP STATION  
BURKEVILLE, VIRGINIA

LIST OF DRAWINGS

DRAWING NO.	TITLE
G-001	COVERSHEET
A-100	ROOF MODIFICATIONS
A-101	ROOF MODIFICATION DETAILS/SPECS
A-102	ROOF MODIFICATION SPECIFICATIONS

GENERAL NOTES:

1. NO ASBESTOS CONTAINING MATERIALS SHALL BE USED ON THE PROJECT.
2. "A LEAD BASE PAINT INSPECTION WAS PERFORMED AND NO LEAD BASE PAINT WAS FOUND." DMHMRAS CONSTRUCTED THE PUMPING STATION IN SPRING OF 2003. AS REQUIRED, ALL APPROVED MATERIAL AND EQUIPMENT SUBMITTALS HAD NO ASBESTOS OR LEAD BASE PAINT INDICATED. ALSO NONE WAS FOUND DURING THE CONSTRUCTION PHASE INSPECTIONS.

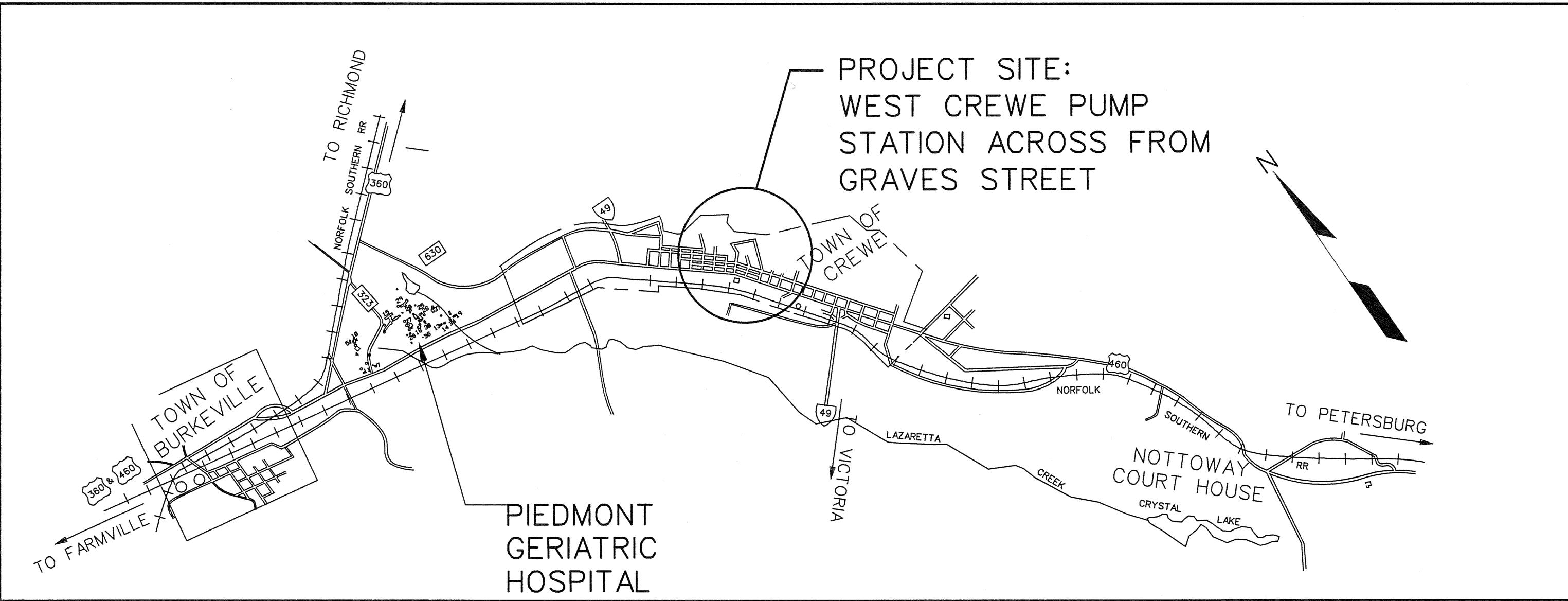
A BUILDING PERMIT IS REQUIRED PRIOR TO COMMENCING WORK ON THE WEST CREWE PUMP MODIFICATIONS. OBTAIN THE BUILDING PERMIT FROM THE TOWN MANAGER'S OFFICE, TOWN HALL, 125 EAST CAROLINA AVENUE. COMPLETE THE FORM, AND SUBMIT IT TO THE NOTTOWAY COUNTY, CHIEF BUILDING OFFICIAL, NOTTOWAY COURTHOUSE. THERE IS NO CHARGE FOR THE PERMIT. BUILDING PERMITS ARE NOT REQUIRED FOR THE WASTEWATER IMPROVEMENTS NOR THE CHEMICAL FEED IMPROVEMENTS.

EXISTING BUILDING CODE INFORMATION:

1. MATERIAL DESIGN STRENGTHS:
  - CAST-IN-PLACE CONCRETE.....f'c = 4,000 PSI
  - REINFORCING STEEL, DEFORMED, A615.....fy = 60,000 PSI
  - STRUCTURAL STEEL, ASTM A36.....FY = 36,000 PSI
2. DESIGN CODES:
  - ACI 318-95 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"
  - AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS", JUNE 1, 1989
  - VIRGINIA UNIFORM STATEWIDE BUILDING CODE (BOCA 1996)
3. DESIGN LOADS:
  - LIVE LOADS:
    - ROOF OF PUMPING STATION.....20 PSF
4. DESIGN WIND, SEISMIC, AND SNOW LOADS ARE BASED ON BOCA 1996 FOR THE FOLLOWING CONDITIONS:
  - BASIC WIND SPEED, V.....70 MPH
  - EXPOSURE CATEGORY.....C
  - IMPORTANCE FACTOR.....1.0
  - SEISMIC ACCELERATION, Aa.....0.05
  - SEISMIC PERFORMANCE CATEGORY.....B
  - GROUND SNOW LOAD, Pg.....20 PSF
  - SNOW EXPOSURE FACTOR, Ce.....0.7

CURRENT BUILDING CODE INFORMATION:

1. MATERIAL DESIGN STRENGTHS:
  - STRUCTURAL STEEL.....FY = 50,000 PSI
2. DESIGN CODES:
  - INTERNATIONAL BUILDING CODE 2003
  - VIRGINIA UNIFORM STATEWIDE BUILDING CODE
3. DESIGN LOADS:
  - LIVE LOAD (ROOF).....20 PSF
4. DESIGN WIND AND SEISMIC LOADS ARE BASED ON IBC 2003 FOR THE FOLLOWING CONDITIONS:
  - BASIC WIND SPEED, V.....90 MPH
  - EXPOSURE CATEGORY.....B
  - WIND IMPORTANCE FACTOR.....1.0
  - SEISMIC ACCELERATION, Aa.....0.05
  - GROUND SNOW LOAD, Pg.....25.0 PSF
  - SNOW EXPOSURE FACTOR, Ce.....0.9



VICINITY MAP  
NTS

SECTION 061053 - MISCELLANEOUS ROUGH CARPENTRY

- 1.1 SUMMARY
  - A. FRAMING WITH DIMENSION LUMBER.
  - B. ROOFTOP EQUIPMENT BASES AND SUPPORT CURBS.
  - C. WOOD BLOCKING, CANTS, AND NAILERS.
- 1.2 QUALITY ASSURANCE
  - A. FOREST CERTIFICATION BY AN FSC-ACCREDITED CERTIFICATION BODY FOR THE FOLLOWING:
    - 1. DIMENSION LUMBER FRAMING.
    - 2. MISCELLANEOUS LUMBER.
    - 3. INTERIOR WOOD TRIM.
    - 4. SHELVING AND CLOTHES RODS.
- 1.3 MATERIALS
  - A. WOOD-PRESERVATIVE-TREATED MATERIALS:
    - 1. PRESERVATIVE TREATMENT: AWP C2 WITH CHEMICALS CONTAINING NO ARSENIC OR CHROMIUM.
    - a. AWP C31 (INORGANIC BORON) MAY BE USED IN PROTECTED LOCATIONS.
  - 2. APPLICATION: ALL MISCELLANEOUS CARPENTRY.
  - B. FIRE-RETARDANT-TREATED MATERIALS:
    - 1. EXTERIOR TYPE FOR EXTERIOR LOCATIONS AND WHERE INDICATED.
    - 2. INTERIOR TYPE A, HIGH TEMPERATURE (HT) FOR ENCLOSED ROOF FRAMING, AND WHERE INDICATED.
    - 3. INTERIOR TYPE A, UNLESS OTHERWISE INDICATED.
    - 4. APPLICATION: ALL MISCELLANEOUS CARPENTRY.
    - 5. MAXIMUM MOISTURE CONTENT: 15 PERCENT.
    - 6. NON-LOAD-BEARING INTERIOR PARTITIONS: CONSTRUCTION OR NO. 2 GRADE SPRUCE-PINE-FIR.
    - 7. OTHER FRAMING: NO. 2 GRADE SPRUCE-PINE-FIR.
  - C. FASTENERS: HOT-DIP GALVANIZED STEEL WHERE EXPOSED TO WEATHER, IN GROUND CONTACT, IN CONTACT WITH TREATED WOOD, OR IN AREA OF HIGH RELATIVE HUMIDITY.
  - D. METAL FRAMING ANCHORS:
    - 1. METAL: HOT-DIP GALVANIZED STEEL; STAINLESS STEEL FOR EXTERIOR AND WHERE INDICATED.

SECTION 07721 - ROOF HATCH

- 1.1 SUBMITTALS
  - A. MANUFACTURER'S INSTALLATION INSTRUCTIONS: INDICATE INSTALLATION REQUIREMENTS AND ROUGH-IN DIMENSIONS.
- 1.2 WARRANTY
  - B. PROVIDE MANUFACTURER'S WRITTEN 5-YEAR WARRANTY.
- 1.3 MANUFACTURED UNITS
  - A. GALVANIZED STEEL ROOF HATCHES:
    - 1. COVER AND LINER: 14 GAUGE (0.075 INCH) GALVANIZED STEEL COVER WITH 1 INCH RIGID FIBERBOARD INSULATION AND 22 GAUGE (0.0299 INCH) GALVANIZED STEEL COVER LINER.
    - 2. CURB: 14-GAUGE GALVANIZED STEEL WITH 3/4 INCH RIGID FIBERBOARD INSULATION AT CURB PERIMETER AS SHOWN ON DRAWINGS.
    - 3. HINGES: ZINC PLATED STEEL TAMPERPROOF HINGE CONTAINED WITHIN HATCH AS PART OF SPRING ASSEMBLY.
    - 4. LATCH: ZINC PLATED STEEL SLAM LATCH WITH TURN HANDLE AND INSIDE/OUTSIDE PADLOCK HASPS.
    - 5. SPRINGS: GREASED HEAVY-DUTY COMPRESSION SPRINGS IN TELESOPING TUBES.
    - 6. HARDWARE: ZINC PLATED STEEL HOLD OPEN ARM(S) WITH RUBBER HANDLE THAT AUTOMATICALLY LOCKS THE DOOR WHEN OPENED. FURNISH HATCHES WITH INTERIOR PADLOCK HASP AND EPDM DRAFT SEAL.
  - 7. MOUNTING FLANGES:
    - a. SINGLE WALL CURB: 3-1/2 INCH.
  - 8. ACCEPTABLE PRODUCT: BABCOCK-DAVIS MODEL B-RHG 36"x36" OR EQUIVALENT
- 1.4 INSTALLATION
  - A. INSTALL ROOF ACCESSORY ITEMS AND COMPONENTS PER MANUFACTURER'S INSTRUCTIONS.
  - B. SEPARATE METAL FROM INCOMPATIBLE METAL OR CORROSIVE SUBSTRATES, INCLUDING WOOD, BY COATING CONCEALED SURFACES, AT LOCATIONS OF CONTACT, WITH BITUMINOUS COATING OR PROVIDING OTHER PERMANENT SEPARATION.
  - C. FLANGE SEALS: UNLESS OTHERWISE INDICATED, SET FLANGES OF ACCESSORY UNITS IN A THICK BED OF ROOFING CEMENT TO FORM A SEAL.

SECTION 051200 - STRUCTURAL STEEL FRAMING

- 1.1 SUMMARY
  - A. STRUCTURAL-STEEL FRAMING.
  - B. PREFABRICATED BUILDING COLUMNS.
- 1.2 PERFORMANCE REQUIREMENTS
  - A. FABRICATOR TO SELECT OR COMPLETE CONNECTIONS TO WITHSTAND DESIGN LOADS.
- 1.3 QUALITY ASSURANCE
  - A. FABRICATOR QUALIFICATIONS: AISC-CERTIFIED PLANT, CATEGORY SBD.
  - B. QUALITY STANDARD: AISC'S "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" AND "LOAD AND RESISTANCE FACTOR DESIGN SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS."
- 1.4 MATERIALS
  - A. STRUCTURAL-STEEL SHAPES: CHANNELS AND ANGLES.
  - B. BOLTS, NUTS, AND WASHERS: HIGH STRENGTH.
  - C. PRIMER: FABRICATOR'S STANDARD, NONASPHALTIC.
- 1.5 FABRICATION
  - A. SHOP CONNECTIONS: WELDED CONNECTIONS.
  - B. SURFACE PREPARATION: SSPC-SP 2 OR SSPC-SP 3.
- 1.6 SOURCE QUALITY CONTROL
  - A. TESTING AGENCY: OWNER ENGAGED.
- 1.7 INSTALLATION
  - A. FIELD CONNECTIONS: SNUG-TIGHTENED HIGH-STRENGTH BOLTS AND WELDED CONNECTIONS.
- 1.8 FIELD QUALITY CONTROL
  - A. TESTING AGENCY: OWNER ENGAGED.

SECTION 054000 - COLD-FORMED METAL FRAMING

- 1.1 SUMMARY
  - A. EXTERIOR LOAD-BEARING WALL FRAMING.
  - B. ROOF RAFTER FRAMING.
- 1.2 QUALITY ASSURANCE
  - A. DESIGN STANDARD: AISI'S "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" AND ITS "STANDARD FOR COLD-FORMED STEEL FRAMING - GENERAL PROVISIONS."
- 1.3 MATERIALS
  - A. STEEL SHEET: ASTM A 1003/A 1003M, STRUCTURAL GRADE, METALLIC COATED.
  - B. LOAD-BEARING WALL FRAMING: STANDARD C-SHAPED, PUNCHED STEEL STUDS AND U-SHAPED, UNPUNCHED TRACK.
  - C. ROOF RAFTER FRAMING:
    - 1. MINIMUM STEEL THICKNESS: 0.0329 INCH.
    - a. STEEL RAFTERS: STANDARD C-SHAPED, UNPUNCHED STEEL SECTIONS.
    - a. MINIMUM STEEL THICKNESS: 0.0329 INCH.
  - D. INSULATION FOR INACCESSIBLE VOIDS.
- 1.4 INSTALLATION
  - A. FASTEN FRAMING BY SCREW FASTENING.
    - 1. LOAD-BEARING WALL STUD SPACING: 12 INCHES.
    - 2. EXTERIOR NON-LOAD-BEARING WALL STUD SPACING: 12 INCHES.
- 1.5 FIELD QUALITY CONTROL
  - A. TESTING: BY OWNER-ENGAGED AGENCY.

COMM NO: 207202.10	
DATE: JANUARY 11, 2008	
DRAWN: JCP	DESIGN: CAR
CHECK: SCL	
CAD FILE: 207202_G01.dwg	
SHEET TITLE	
COVERSHEET	
SHT. NO. G-001	REV. NO. 1